

What is claimed is:

1. A processor-based system operating according to digitally-embedded programming instructions and communicating with one or more digital data storage media for classifying and archiving images including face regions that are acquired with an image acquisition device, the programming instructions comprising:

(a) a face detection module for identifying a group of pixels corresponding to a face region within digital image data acquired by the acquisition device;

(b) a normalization module for generating a normalized version of the face region;

(c) a face recognition module for extracting a set of face classifier parameter values from said normalized face region, said set of face classifier parameter values being collectively known as a faceprint associated with said normalized face region;

(d) a workflow module for comparing said extracted faceprint to a database of archived faceprints previously determined to correspond to one or more known identities, and for determining based on the comparing whether the new faceprint corresponds to any of the one or more known identities, the workflow module further for associating the new faceprint and normalized face region with a new or known identity within a database comprising other data corresponding to the archived faceprints and associated parent images for performing further comparisons with further faceprints and for digitally organizing and selectively recalling said archived faceprints and the associated parent images; and

(e) a database module for archiving data corresponding to the new faceprint and its associated parent image according to the associating by the workflow module within one or more digital data storage media.

2. The system of claim 1, wherein the identifying by the face detection module comprises determining a probability that the group of pixels comprises a face region.

3. The system of claim 2, wherein the identifying further comprises determining whether the probability lies above a predetermined threshold, and if not, automatically determining that the group of pixels does not comprise a face region.

4. The system of claim 1, wherein the generating of the normalized face region image by the normalization module comprises luminance normalization.
5. The system of claim 1, wherein the generating of the normalized face region image by the normalization module comprises size normalization.
6. The system of claim 1, wherein the generating of the normalized face region image by the normalization module comprises orientation normalization.
7. The system of claim 1, wherein the generating of the normalized face region image by the normalization module comprises pose normalization.
8. The system of claim 1, wherein the generating of the normalized face region image by the normalization module comprises a combination of two or more of luminance, size, orientation and pose normalization.
9. The system of claim 1, wherein the workflow module for determining that the new faceprint corresponds to a first identity, and the database module for archiving the new faceprint within a first face class, and wherein the face recognition module is further for comparing values of face classifier parameters of a second face class including a second faceprint image to values of the parameters corresponding to the first face class including the new faceprint, as well as to further face classes including further faceprints , and for determining based on the comparing whether the second faceprint matches any of the first and further face classes.
10. The system of claim 1, wherein one or more archived faceprints have been previously determined to correspond to the one or more known identities, and the comparing by the workflow module comprises determining proximities of the values of the face classifier parameters of the new face print image with values corresponding to the one or more archived faceprints.

11. The system of claim 10, wherein the proximities of the values correspond to proximities of locations in the multi-dimensional mathematical space defined by the set of face classifier parameters which correspond to a faceprint.
12. The system of claim 11, wherein at least one proximity is statistically calculated based on comparisons with multiple archived faceprints corresponding to a same identity.
13. The system of claim 10, wherein the proximities of the values correspond to at least one of proximities of color, shape, or relative distances between identified locations within the face print images, or combinations thereof.
14. The system of claim 13, wherein at least one proximity is statistically calculated based on comparisons with multiple archived faceprints corresponding to a same identity.
15. The system of claim 10, wherein the determining by the face recognition module comprises automatically determining that the new faceprint corresponds to a known identity based on one or more geometric distance proximities being within a predetermined proximity threshold.
16. The system of claim 15, wherein at least one proximity is statistically calculated to be within the threshold when the probability that the proximity is within the threshold is above a predetermined probability value.
17. The system of claim 15, wherein the predetermined proximity threshold comprises a first threshold, and the determining by the workflow module comprises requesting user confirmation whether the normalized face region associated with the new faceprint corresponds to a known identity when a geometric distance proximity is outside the first threshold and within a second threshold greater than the first threshold.
18. The system of claim 17, wherein at least one proximity is statistically calculated to be within a threshold when the probability that the proximity is within the threshold is above a predetermined probability value.

19. The system of claim 17, wherein the determining by the workflow module comprises automatically determining that the new faceprint does not correspond to a known identity based on one or more geometric distance proximities being outside the second threshold or a third threshold greater than the second threshold.

20. The system of claim 10, wherein the determining by the workflow module comprises automatically determining that the new faceprint corresponds to a known identity when comparisons of the face classifier parameter values of the first face print with multiple archived faceprints corresponding to a same known identity each result in a determination of an identity match.

21. The system of claim 10, wherein the determining by the workflow module comprises requesting user confirmation whether the new faceprint corresponds to a known identity when comparisons of the face classifier parameter values of the first faceprint with multiple archived faceprints corresponding to a same known identity result in at least one determination of an identity match and at least one determination that the identities do not match.

22. The system of claim 10, wherein the determining by the workflow module comprises requesting user confirmation whether the new face print image corresponds to one or more known identities when comparisons of the face classifier parameter values of the new faceprint with multiple archived faceprints corresponding to multiple known identities result in determinations of identity matches with at least two different identities.

23. The system of claim 1, wherein the associating by the workflow module comprises grouping the new faceprint with a new or prior face class defined by values of one or more face classifier parameters.

24. The system of claim 23, wherein when the determining by the workflow module results in no identity matches between the new faceprint and any known identity, the workflow module determines that the new face print image corresponds to a new identity and is grouped with a

new face class defined by sets of boundary face classifier parameter values, and archives new data accordingly.

25. The system of claim 24, wherein the archiving of the new data corresponding to the face classifier parameters of the new faceprint corresponding to the new identity comprises associating the new data with archived data corresponding to one or more known identities based on a relationship between the new identity and the one or more known identities.

26. The system of claim 24, wherein the archiving of the new data corresponding to the face classifier parameters of the new faceprint corresponding to the new identity comprises associating the new data with a further new identity based on a relationship between the two new identities.

27. The system of claim 23, wherein the archiving of the new data corresponding to the face classifier parameters of the new faceprint comprises generating a new face class defined by sets of boundary face classifier parameter values including the particular face parameter values of the new face print image.

28. The system of claim 27, wherein the archiving further comprises grouping the new face class with another face class within a same identity table corresponding to a same appearance of a known identity.

29. The system of claim 28, wherein the archiving further comprises adjusting boundary face classifier parameter values of a different identity based on adjusted boundary values of the identity including the new face class.

30. The system of claim 27, wherein the archiving further comprises grouping the new face class within a first identity table, and grouping the first identity table with a second identity table, including a second face class, together within a same appearance table corresponding to a different appearances of a same known identity.

31. The system of claim 30, wherein the archiving further comprises adjusting boundary face classifier parameter values of a different identity based on new or adjusted boundary values of the identity including the new face class.

32. The system of claim 27, wherein the archiving further comprises grouping the new face class within a previously generated identity table including multiple face classes corresponding to multiple different values of face classifier parameters corresponding to a same appearance of a same identity.

33. The system of claim 32 wherein the archiving further comprises adjusting boundary face classifier parameter values of the identity based on parameters of the new face class.

34. The system of claim 33 wherein the archiving further comprises adjusting boundary face classifier parameter values of a different identity based on parameters of the adjusted boundary values of the identity including the new face class.

35. The system of claim 23, wherein the archiving of the new data corresponding to the face classifier parameters of the new faceprint comprises grouping the new faceprint within a previously-determined face class defined by sets of boundary face classifier parameter values including particular face classifier parameter values of the new faceprint.

36. The system of claim 35, wherein the archiving further comprises re-defining the boundaries of the previously-determined face class based on one or more particular face classifier parameter values of the new faceprint being outside previously established boundary values.

37. The system of claim 35, wherein the face class has been previously grouped with one or more other face classes within a same identity table corresponding to a same known identity, and wherein the archiving further comprises adjusting boundary values of the identity table based on adjusted boundary values of the face class including the new faceprint.

38. The system of claim 1, wherein the programming instructions further comprise an image detection module for determining that a new image is presented for face detection processing.

39. The system of claim 1, wherein the programming instructions further comprise a set of user interface modules for obtaining user input in the detection of face candidate regions, or the classifying, archiving or recalling of faceprints or associated normalized face regions, or combinations thereof.

40. The system of claim 1, wherein the programming instructions are stored on or accessible by a stand alone processor-based device configured for receiving raw image data from a digital camera, and the device being coupled with or including user interface hardware, and upon which the classifying is performed.

41. The system of claim 1, wherein the programming instructions are stored at least in part on an embedded appliance for performing some image classifying-related processing prior to outputting processed image data to a further processor-based device upon which the classifying is further performed.

42. The system of claim 41, wherein the embedded appliance comprises a digital camera.

43. The system of claim 42, wherein the digital camera comprises a dedicated digital camera or a camera-capable handheld pda or phone, or a combination thereof.

44. The system of claim 1, wherein the programming instructions are stored at least in part on a processor-based device connected to a network for performing some image classifying-related processing on the device prior to outputting processed data to a back-end server upon which the classifying is further performed.

45. The system of claim 1, wherein the identifying by the face detection module or the comparing by the face recognition module, or both, comprise receiving and utilizing user input confirmation.

46. The system of claim 1, wherein the identifying by the face detection module or the comparing by the face recognition module, or both, are configured for auto-processing subject to selective disablement of the auto-processing by a user.

47. The system of claim 1, wherein the identifying by the face detection module applies automatic face region identification when a detection probability is calculated to be above a detection probability threshold or the comparing by the face recognition module applies automatic identity recognition when a matching probability with a prior faceprint is calculated to be above a matching probability threshold, or both.

48. The system of claim 47, wherein the detection probability threshold or the matching probability threshold, or both, are adjustable.

49. The system of claim 48, wherein the detection threshold or the matching threshold, or both, are adjustable by a user, a manufacturer, or an adaptive learning program of the system, or combinations thereof.

50. The system of claim 1, wherein the programming instructions are stored on or accessible by processor-based components within a digital camera upon which the classifying is performed.

51. The system of claim 1, wherein the set of face classifier parameters are principle component vectors derived from a set of eigenface descriptors.

52. The system of claim 1, wherein the set of face classifier parameters are independent component vectors derived from an independent component analysis of a normalized face image.

53. The system of claim 1, wherein the set of face classifier parameters are fourier components derived from a 2D Fourier transformation of the normalized face region.



54. The system of claim 1, wherein the set of face classifier parameters are discrete fourier transform vectors derived from a 2D discrete cosine transform of the normalized face region.

55. The system of claim 1, wherein the set of face classifier parameters are wavelet transform components derived from a 2D wavelet transform of the normalized face region.

56. The system of claim 1, wherein the set of face classifier parameters are gabor transform components derived from a 2D gabor transform of the normalized face region.

57. The system of claim 1, wherein the set of face classifier parameters comprises a combination of two or more of principle components vectors, independent component vectors, fourier components, discrete cosine transform components, wavelet transform components and gabor transform components.

58. The system of claim 57, wherein the set of face classifier parameters includes additional classifiers or subsets thereof which further characterize the shape, texture, color distribution or localized physical features of the face region.

59. The system of claim 57, wherein the set of face classifier parameters may be subdivided into two or more subsets of face classifier parameters wherein each subset facilitates a particular step of the comparing and determining a match of said set of face classifier parameters with a previously determined known identity.

60. The system of claim 59, wherein one of said subsets of face classifier parameters verifies that the face region is similar enough to the face region of one or more known identities to be correctly recognized; and wherein the second of said subsets of face classifier parameters completes the recognition process by determining which of said known identities said face region should be associated with.

61. The system of claim 59, wherein one of said subsets of face classifier parameters determines that the face region has a particular pose aspect and the second of said subsets of face classifier

parameters completes the recognition process by comparing and determining a match of said set of face classifier parameters with a previously determined known identity sharing a similar pose aspect.

62. A processor-based workflow system operating according to digitally-embedded programming instructions and communicating with one or more digital data storage media for classifying and archiving images including face regions that are acquired with an image acquisition device, the programming instructions comprising a workflow module providing for the automatic or semiautomatic processing of identified face regions within digital images from which normalized face classifier parameter values are extracted and collectively referred to as a faceprint, the processing comprising:

- (a) comparing said extracted faceprint to a database of archived faceprints previously determined to correspond to one or more known identities;

- (b) determining based on the comparing whether the new faceprint corresponds to any of the one or more known identities; and

- (c) associating the new faceprint with a new or known identity within a database comprising other data corresponding to the archived faceprints and associated parent images for performing further comparisons with further faceprints and for digitally organizing and selectively recalling said new and archived faceprints and the associated parent images, such as to permit data corresponding to the new faceprint and its associated parent image to be archived according to the associating by the workflow module within one or more digital data storage media.

63. The system of claim 62, wherein one or more archived faceprints have been previously determined to correspond to the one or more known identities, and the comparing by the workflow module comprises determining proximities of the values of the face classifier parameters of the new face print image with values corresponding to the one or more archived faceprints.

64. The system of claim 63, wherein the proximities of the values correspond to proximities of locations in the multi-dimensional mathematical space defined by the set of face classifier parameters which correspond to a faceprint.

65. The system of claim 64, wherein at least one proximity is statistically calculated based on comparisons with multiple archived faceprints corresponding to a same identity.

66. The system of claim 64, wherein the proximities of the values correspond to proximities of relative distances between identified locations within the face print images.

67. The system of claim 64, wherein the proximities of the values correspond to at least one of proximities of color, shape, or relative distances between identified locations within the face print images.

68. The system of claim 67, wherein at least one proximity is statistically calculated based on comparisons with multiple archived faceprints corresponding to a same identity.

69. The system of claim 64, wherein the determining by the workflow module comprises automatically determining that the new faceprint corresponds to a known identity based on one or more geometric distance proximities being within a predetermined proximity threshold.

70. The system of claim 69, wherein at least one proximity is statistically calculated to be within the threshold when the probability that the proximity is within the threshold is above a predetermined probability value.

71. The system of claim 69, wherein the predetermined proximity threshold comprises a first threshold, and the determining by the workflow module comprises requesting user confirmation whether the normalized face region associated with the new faceprint corresponds to a known identity when a geometric distance proximity is outside the first threshold and within a second threshold greater than the first threshold.

72. The system of claim 71, wherein at least one proximity is statistically calculated to be within a threshold when the probability that the proximity is within the threshold is above a predetermined probability value.

73. The system of claim 71, wherein the determining by the workflow module comprises automatically determining that the new faceprint does not correspond to a known identity based on one or more geometric distance proximities being outside the second threshold or a third threshold greater than the second threshold.

74. The system of claim 64, wherein the determining by the workflow module comprises automatically determining that the new faceprint corresponds to a known identity when comparisons of the face classifier parameter values of the first face print with multiple archived faceprints corresponding to a same known identity each result in a determination of an identity match.

75. The system of claim 64, wherein the determining by the workflow module comprises requesting user confirmation whether the new faceprint corresponds to a known identity when comparisons of the face classifier parameter values of the first faceprint with multiple archived faceprints corresponding to a same known identity result in at least one determination of an identity match and at least one determination that the identities do not match.

76. The system of claim 64, wherein the determining by the workflow module comprises requesting user confirmation whether the new face print image corresponds to one or more known identities when comparisons of the face classifier parameter values of the new faceprint with multiple archived faceprints corresponding to multiple known identities result in determinations of identity matches with at least two different identities.

77. The system of claim 62, wherein the associating by the workflow module comprises grouping the new faceprint with a new or prior face class defined by values of one or more face classifier parameters.

78. The system of claim 77, wherein when the determining by the workflow module results in no identity matches between the new faceprint and any known identity, the workflow module determines that the new face print image corresponds to a new identity and is grouped with a new face class defined by sets of boundary face classifier parameter values, and archives new data accordingly.

79. The system of claim 78, wherein the archiving of the new data corresponding to the face classifier parameters of the new faceprint corresponding to the new identity comprises associating the new data with archived data corresponding to one or more known identities based on a relationship between the new identity and the one or more known identities.

80. The system of claim 78, wherein the archiving of the new data corresponding to the face classifier parameters of the new faceprint corresponding to the new identity comprises associating the new data with a further new identity based on a relationship between the two new identities.

81. The system of claim 77, wherein the method further comprises archiving new data corresponding to the new face print accordingly, and wherein the archiving of the new data corresponding to the face classifier parameters of the new faceprint comprises generating a new face class defined by sets of boundary face classifier parameter values including the particular face parameter values of the new face print image.

82. The system of claim 81, wherein the archiving further comprises grouping the new face class with another face class within a same identity table corresponding to a same appearance of a known identity.

83. The system of claim 82, wherein the archiving further comprises adjusting boundary face classifier parameter values of a different identity based on adjusted boundary values of the identity including the new face class.

84. The system of claim 81, wherein the archiving further comprises grouping the new face class within a first identity table, and grouping the first identity table with a second identity table, including a second face class, together within a same appearance table corresponding to a different appearances of a same known identity.

85. The system of claim 84, wherein the archiving further comprises adjusting boundary face classifier parameter values of a different identity based on new or adjusted boundary values of the identity including the new face class.

86. The system of claim 81, wherein the archiving further comprises grouping the new face class within a previously generated identity table including multiple face classes corresponding to multiple different values of face classifier parameters corresponding to a same appearance of a same identity.

87. The system of claim 86, wherein the archiving further comprises adjusting boundary face classifier parameter values of the identity based on parameters of the new face class.

88. The system of claim 87, wherein the archiving further comprises adjusting boundary face classifier parameter values of a different identity based on parameters of the adjusted boundary values of the identity including the new face class.

89. The system of claim 77, wherein the method further comprises archiving new data corresponding to the new face print accordingly, and wherein the archiving of the new data corresponding to the face classifier parameters of the new faceprint comprises grouping the new faceprint within a previously-determined face class defined by sets of boundary face classifier parameter values including particular face classifier parameter values of the new faceprint.

90. The system of claim 89, wherein the archiving further comprises re-defining the boundaries of the previously-determined face class based on one or more particular face classifier parameter values of the new faceprint being outside previously established boundary values.

91. The system of claim 89, wherein the face class has been previously grouped with one or more other face classes within a same identity table corresponding to a same known identity, and wherein the archiving further comprises adjusting boundary values of the identity table based on adjusted boundary values of the face class including the new faceprint.

92. The system of claim 62, wherein the programming instructions further comprise an image detection module for determining that a new image is presented for face detection processing.

93. The system of claim 62, wherein the programming instructions further comprise a set of user interface modules for obtaining user input in the detection of face candidate regions, or the classifying, archiving or recalling of faceprints or associated normalized face regions, or combinations thereof.

94. The system of claim 62, wherein the programming instructions are stored on or accessible by a stand alone processor-based device configured for receiving raw image data from a digital camera, and the device being coupled with or including user interface hardware, and upon which the classifying is performed.

95. The system of claim 62, wherein the programming instructions are stored at least in part on an embedded appliance for performing some image classifying-related processing prior to outputting processed image data to a further processor-based device upon which the classifying is further performed.

96. The system of claim 95, wherein the embedded appliance comprises a digital camera.

97. The system of claim 96, wherein the digital camera comprises a dedicated digital camera or a camera-capable handheld pda or phone, or a combination thereof.

98. The system of claim 62, wherein the programming instructions are stored at least in part on a processor-based device connected to a network for performing some image classifying-related

processing on the device prior to outputting processed data to a back-end server upon which the classifying is further performed.

99. The system of claim 62, wherein the programming instructions are stored on or accessible by processor-based components within a digital camera upon which the classifying is performed.

100. The system of claim 62, wherein the set of face classifier parameters are principle component vectors derived from a set of eigenface descriptors.

101. The system of claim 62, wherein the set of face classifier parameters are independent component vectors derived from an independent component analysis of a normalized face image.

102. The system of claim 62, wherein the set of face classifier parameters are fourier components derived from a 2d fourier transformation of the normalized face region.

103. The system of claim 62, wherein the set of face classifier parameters are discrete fourier transform vectors derived from a 2d discrete cosine transform of the normalized face region.

104. The system of claim 62, wherein the set of face classifier parameters are wavelet transform components derived from a 2d wavelet transform of the normalized face region.

105. The system of claim 62, wherein the set of face classifier parameters are gabor transform components derived from a 2d gabor transform of the normalized face region.

106. The system of claim 62, wherein the set of face classifier parameters comprises a combination of two or more of principle components vectors, independent component vectors, fourier components, discrete cosine transform components, wavelet transform components and gabor transform components.



107. The system of claim 106, wherein the set of face classifier parameters includes additional classifiers or subsets thereof which further characterize the shape, texture, color distribution or localized physical features of the face region.

108. The system of claim 106, wherein the set of face classifier parameters may be subdivided into two or more subsets of face classifier parameters wherein each subset facilitates a particular step of the comparing and determining a match of said set of face classifier parameters with a previously determined known identity.

109. The system of claim 108, wherein one of said subsets of face classifier parameters verifies that the face region is similar enough to the face region of one or more known identities to be correctly recognized; and wherein the second of said subsets of face classifier parameters completes the recognition process by determining which of said known identities said face region should be associated with.

110. The system of claim 108, wherein one of said subsets of face classifier parameters determines that the face region has a particular pose aspect and the second of said subsets of face classifier parameters completes the recognition process by comparing and determining a match of said set of face classifier parameters with a previously determined known identity sharing a similar pose aspect.

111. A method for classifying and archiving images including face regions that are acquired with an image acquisition device, comprising:

(a) generating a normalized face region from an identified face region within digital image data acquired by the acquisition device;

(b) extracting a set of face classifier parameter values, collectively referred to as a faceprint, from the normalized face region;

(c) comparing said extracted faceprint to a database of archived faceprints previously determined to correspond to one or more known identities;

(d) determining based on the comparing whether the new faceprint corresponds to any of the one or more known identities;

(e) associating the new faceprint with a new or known identity within a database comprising other data corresponding to the archived faceprints and associated parent images for performing further comparisons with further faceprints, such as to permit data corresponding to the new faceprint and its associated parent image to be archived according to the associating by the workflow module within one or more digital data storage media; and

(f) digitally organizing and selectively recalling said new and archived faceprints and the associated parent images.

112. The method of claim 111, wherein one or more archived faceprints have been previously determined to correspond to the one or more known identities, and the comparing comprises determining proximities of the values of the face classifier parameters of the new face print image with values corresponding to the one or more archived faceprints.

113. The method of claim 112, wherein the proximities of the values correspond to proximities of locations in a multi-dimensional mathematical space defined by the set of face classifier parameters which correspond to a faceprint.

114. The method of claim 113, further comprising statistically calculating at least one proximity based on comparisons with multiple archived faceprints corresponding to a same identity.

115. The method of claim 112, wherein the determining comprises automatically determining that the new faceprint corresponds to a known identity based on one or more geometric distance proximities being within a predetermined proximity threshold.

116. The method of claim 115, further comprising statistically calculating at least one proximity to be within the threshold when the probability that the proximity is within the threshold is above a predetermined probability value.

117. The method of claim 115, wherein the predetermined proximity threshold comprises a first threshold, and the determining comprises requesting user confirmation whether the normalized face region associated with the new faceprint corresponds to a known identity when a geometric

distance proximity is outside the first threshold and within a second threshold greater than the first threshold.

118. The method of claim 117, statistically calculating at least one proximity to be within a threshold when the probability that the proximity is within the threshold is above a predetermined probability value.

119. The method of claim 117, wherein the determining comprises automatically determining that the new faceprint does not correspond to a known identity based on one or more geometric distance proximities being outside the second threshold or a third threshold greater than the second threshold.

120. The method of claim 112, wherein the determining comprises automatically determining that the new faceprint corresponds to a known identity when comparisons of the face classifier parameter values of the first face print with multiple archived faceprints corresponding to a same known identity each result in a determination of an identity match.

121. The method of claim 112, wherein the determining comprises requesting user confirmation whether the new faceprint corresponds to a known identity when comparisons of the face classifier parameter values of the first faceprint with multiple archived faceprints corresponding to a same known identity result in at least one determination of an identity match and at least one determination that the identities do not match.

122. The method of claim 112, wherein the determining comprises requesting user confirmation whether the new face print image corresponds to one or more known identities when comparisons of the face classifier parameter values of the new faceprint with multiple archived faceprints corresponding to multiple known identities result in determinations of identity matches with at least two different identities.

123. The method of claim 111, wherein the associating comprises grouping the new faceprint with a new or prior face class defined by values of one or more face classifier parameters.

124. The method of claim 123, wherein when the determining results in no identity matches between the new faceprint and any known identity, the method further comprises:

- (i) determining that the new face print image corresponds to a new identity;
- (ii) grouping the new face print image with a new face class defined by sets of boundary face classifier parameter values.

125. The method of claim 111, further comprising determining that a new image is presented for face detection processing.

126. The method of claim 111, further comprising obtaining user input in the detection of face candidate regions.

127. The method of claim 111, further comprising classifying, archiving or recalling of faceprints or associated normalized face regions, or combinations thereof.

128. The method of claim 111, further comprising verifying that the face region is similar enough to a face region of one or more known identities to be correctly recognized.

129. The method of claim 128, further comprising completing the recognition process by determining which of said known identities said face region should be associated with.

130. The method of claim 111, wherein the generating further comprises performing one or more additional normalizing operations.

131. The method of claim 130, wherein the performing comprises luminance, size, or orientation normalizing, or combinations thereof.

132. The method of claim 111, wherein the generating further comprises size normalizing of said face region.

133. The method of claim 111, further comprising archiving the new faceprint and its associated parent image, according to the associating, within one or more digital data storage media.

134. The method of claim 133, wherein the archiving of the new data corresponding to the face classifier parameters of the new faceprint corresponding to the new identity comprises associating the new data with archived data corresponding to one or more known identities based on a relationship between the new identity and the one or more known identities.

135. The method of claim 133, wherein the archiving of the new data corresponding to the face classifier parameters of the new faceprint corresponding to the new identity comprises associating the new data with a further new identity based on a relationship between the two new identities.

136. The method of claim 133, wherein the archiving of the new data corresponding to the face classifier parameters of the new faceprint comprises generating a new face class defined by sets of boundary face classifier parameter values including the particular face parameter values of the new face print image.

137. The method of claim 136, wherein the archiving further comprises grouping the new face class with another face class within a same identity table corresponding to a same appearance of a known identity.

138. The method of claim 137, wherein the archiving further comprises adjusting boundary face classifier parameter values of a different identity based on adjusted boundary values of the identity including the new face class.

139. The method of claim 136, wherein the archiving further comprises grouping the new face class within a first identity table, and grouping the first identity table with a second identity table, including a second face class, together within a same appearance table corresponding to a different appearances of a same known identity.

140. The method of claim 139, wherein the archiving further comprises adjusting boundary face classifier parameter values of a different identity based on new or adjusted boundary values of the identity including the new face class.

141. The method of claim 136, wherein the archiving further comprises grouping the new face class within a previously generated identity table including multiple face classes corresponding to multiple different values of face classifier parameters corresponding to a same appearance of a same identity.

142. The method of claim 133, wherein the archiving further comprises adjusting boundary face classifier parameter values of the identity based on parameters of the new face class.

143. The method of claim 142, wherein the archiving further comprises adjusting boundary face classifier parameter values of a different identity based on parameters of the adjusted boundary values of the identity including the new face class.

144. The method of claim 133, wherein the archiving of the new data corresponding to the face classifier parameters of the new faceprint comprises grouping the new faceprint within a previously-determined face class defined by sets of boundary face classifier parameter values including particular face classifier parameter values of the new faceprint.

145. The method of claim 144, wherein the archiving further comprises re-defining the boundaries of the previously-determined face class based on one or more particular face classifier parameter values of the new faceprint being outside previously established boundary values.

146. The method of claim 144, wherein the face class has been previously grouped with one or more other face classes within a same identity table corresponding to a same known identity, and wherein the archiving further comprises adjusting boundary values of the identity table based on adjusted boundary values of the face class including the new faceprint.

147. The method of claim 133, wherein the archiving enabled further comparisons with further faceprints and recalling of the faceprints and their associated normalized face regions and parent images.

148. The system of claim 111, further comprising determining that the face region has a particular pose aspect.

149. The method of claim 148, further comprising completing the recognition process by comparing and determining a match of face classifier parameters with a previously determined known identity sharing a similar pose aspect.